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GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Ms. Anne-Marie Ainsworth
General Manager
Motiva Enterprises LLC, Norco Refinery
Post Office Box 10
Norco, Louisiana 70079

Agency Interest No. 1406
Activity No.: PER20090015

RE: Operating permit renewal/modification, CR-2, NHT and DHT Units, Norco Refinery, Motiva Enterprises LLC, Norco, St. Charles Parish, Louisiana

Dear Ms. Ainsworth:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 2502-V4

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

SGQ
c: EPA Region VI

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**NORCO REFINERY, CR 2, NHT AND DHT UNITS
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

Motiva was granted Permit No. 2502-V2 dated August 8, 2007 to modify the CR 1&2, NHT, and DHT Units in order to replace CR2 Texas Towers (E-1241 and E-1242), Caustic and Water Wash Column (PV-963), and upgrade Naphtha Hydrotreater (NHT) Furnace (F-21). The projects were reviewed based on the New Source Review (NSR Reform), U.S. EPA. For the Prevention of Significant Deterioration (PSD) applicability determination, an actual to potential to emit emission analysis and an actual to projected actual emissions analysis were used as appropriate. The overall emissions increases from the projects were less than the PSD significance levels for all criteria pollutants. Therefore, PSD review was not required.

Motiva installed two 550 gallons tetrachloroethylene storage tanks and associated piping and fugitive components at the refinery in order to eliminate the utilization of chlorine in the Catalytic Reformer No. 2 (CR-2) Unit during catalyst regeneration activities. This change was permitted under Permit No. 2502-V3 dated May 22, 2009. There was no emissions change related to this modification.

The facility now proposes to modify the facility as follows:

CR-2 Unit Water Wash Project: Install separate water wash system on the Stabilizer Column overhead liquid and vapor stream in order to mitigate the corrosion and fouling in the transfer piping containing CR-2 and Naphtha Hydrotreater streams. Sodium carbonate will be used as the neutralization agent. This modification will trigger the applicability of NSPS, Subpart GGGa

DHT Feed/Effluent Exchangers: Install a recirculation pipeline to ease the hydrostatic conditions at the time of heat exchanger blockage. The piping with a relief valve will be installed between the discharge of the DHT Unit Feed Pump and the inlet of the DHT Feed Surge Drum.

Post ULSD Safeguarding Project: Install four automatic shutdown valves to be activated by existing and/or new instrumentation sensor alarms in the DHT Unit to ease the potential overpressure in the following vessels, DHT Feed Surge Drum and the DHT Stripper Column.

The addition of fugitive components will trigger the applicability of NSPS, Subpart GGGa.

Remove Fresh Caustic Fixed Roof Tank K-515 from the Insignificant Activity List and permit it as an emission point, Emission Point 5066-09, because this tank is also used for storing either spent sulfidic caustic or spent naphthenic caustic.

The facility is also proposing to remove the CR-1 Unit along with associated equipment and activities. The facility will update the Insignificant Activities and General Condition XVII Activities Lists as appropriate.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NORCO REFINERY, CR 2, NHT AND DHT UNITS
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Estimated emissions due to the modification stated above in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	34.81	23.17	- 11.64
SO ₂	128.98	84.27	- 44.71
NO _x	610.57	165.85	- 444.72
CO	384.82	251.36	- 133.46
VOC *	489.39	311.51	-177.88

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,3-Butadiene	<0.01	0.03	+ 0.03
2,2,4-Trimethylpentane	NS	0.02	+ 0.02
Benzene	2.80	0.54	- 2.26
Biphenyl	NS	<0.01	+ <0.01
Cresol	NS	<0.01	+ <0.01
Cumene	NS	<0.01	+ <0.01
Diethanolamine	7.36	1.35	- 6.01
Ethyl benzene	1.60	0.28	- 1.32
n-Hexane	4.74	1.99	- 2.75
Naphthalene	3.75	2.97	- 0.78
PAH	0.35	0.37	+ 0.02
Phenol	0.03	<0.01	- 0.03
Styrene	<0.01	<0.01	-
Toluene	7.08	2.22	- 4.86
Xylenes	10.26	2.08	- 8.18
Total	37.97	11.85	- 26.12

Other VOC (TPY): 299.66

Non VOC Toxic Air Pollutants (TAPs)

Ammonia	0.63	<0.01	- 0.63
Cobalt (and compounds)	NR	0.04	+ 0.04
Chlorine	2.75	-	- 2.75

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NORCO REFINERY, CR 2, NHT AND DHT UNITS
AGENCY INTEREST NO. 1406
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NORCO, ST. CHARLES PARISH, LOUISIANA**

Non VOC Toxic Air Pollutants (TAPs)

Pollutant	Before	After	Change
Hydrochloric Acid	0.13	0.10	- 0.03
Hydrogen Sulfide	1.26	2.30	+ 1.04
Nickel (and compounds)	NS	0.06	+ 0.06
Tetrachloroethylene	3.24	2.07	- 1.17
Total	8.01	4.57	- 3.44

NS = Not speciated earlier

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NSPS, and NESHAP. Prevention of Significant Deterioration does not apply. Also the review was based on the Consent Decree – A NSR Settlement (Civil Action Number H-01-0978) between USA EPA and Motiva Enterprises LLC date of entry August 21, 2001 and a Consent Decree – A NSR Settlement (Civil Action Number 96-0328) between USA EPA and Shell Oil Company date of entry March 27, 1996. The facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The facility is also subject to 40 CFR 63, Subpart UUU – NESHAPs from Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the renewal permit was published in The Advocate, Baton Rouge, Louisiana and St. Charles Herald-Guide, Louisiana, on November **, 2009.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NORCO REFINERY, CR 2, NHT AND DHT UNITS
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

Written and oral comments received during the comment period from the general public and organizations will be considered before issuing the permit. Copies of the public notice were mailed out to individuals on the mailing list maintained by Office of Environmental Services on November **, 2009. The proposed permit was sent to EPA via e-mail on November **, 2009.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration ($\mu\text{g}/\text{m}^3$)	Louisiana Air Quality Standard (NAAQS) ($\mu\text{g}/\text{m}^3$)
NA			

VIII. General Condition XVII Activities

Activity	Frequency	VOC	PM	SO ₂	NO _x	CO
		TPY	TPY	TPY	TPY	TPY
CR – 2 Unit Liquids Sampling	120 samples/week	0.16				
NHT Unit Liquids Sampling	60 samples/week	0.08				
DHT Unit Liquids Sampling	90 samples/week	0.12				
CR – 2 Unit Pump Prep and Equipment Maintenance	34 events/month	0.10				
NHT Unit Pump Prep and Equipment Maintenance	28 events/month	0.08				
DHT Unit Pump Prep and Equipment Maintenance	46 events/month	0.14				
CR – 2 Unit Instrumentation Maintenance	884 event/year	0.07				
NHT Unit Instrumentation Maintenance	48 event/year	0.004				
DHT Unit Instrument Maintenance	200 event/yr	0.02				
NHT Unit Filter Pot Maintenance	3 events/month	0.003				
Fixed Roof Perchloroethylene Tank No. 1 Cleaning	1 event/year	*				

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NORCO REFINERY, CR 2, NHT AND DHT UNITS
AGENCY INTEREST NO. 1406
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Activity	Frequency	VOC	PM	SO ₂	NO _x	CO
		TPY	TPY	TPY	TPY	TPY
Fixed Roof Perchloroethylene Tank No. 2 Cleaning	1 event/year	*				
Fixed Roof Tank K-515 Cleaning	1 event/yr	0.20				

* Tetrachloroethylene 0.01 TPY

IX. Insignificant Activities

ID No.:	Description	Citation
IA-A.9-1	CR-2 Unit A1509 – Ranarex Recycle Gas Specific Gravity (15 scfh)	LAC 33:III.501.B.5.A.9
IA-A.9-2	CR-2 Unit A1510 - DuPont recycle Gas Moisture (10 scfh)	LAC 33:III.501.B.5.A.9
IA-A.9-3	CR-2 Unit A1779 – MSA Regen System Combustible (12.02 scfh)	LAC 33:III.501.B.5.A.9
IA-A.9-4	CR-2 Unit A2230 – Applied Stabilizer Bottoms (Neg.)	LAC 33:III.501.B.5.A.9
T-103	T-103, Soap Horizontal Tank (CHEM 35), (564 gal)	LAC 33:III.501.B.5.A.10

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NORCO REFINERY, CR 2, NHT AND DHT UNITS
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																
		5▲	9	11	13	15	2113	2141	2109	2111	2115	2121	2141	2301	29*	51*	52	56
UNF001	Catalytic Reformer, Naphtha and Diesel Hyrotreaters	1	1	1	1	1							1		1	1	1	1
EQT 57	11-73, CR-2 Heater Stack A/B		1	1	1											2		
EQT 58	13-71, Desulfurization Heater (NHT)		1	1	1											2		
EQT 61	21-76, DHT Heater		1	1	1											2		
EQT 62	30-71A, CR-2 Heater (F-53)		1	1	1											2		
EQT 63	30-71B, CR-2 Heater (F-54)		1	1	1											2		
EQT 64	30-71C, CR-2 Heater (F-55)		1	1	1											2		
EQT 65	30-71D, CR-2 Heater (F-57)		1	1	1											2		
EQT 66	3103-95, Oil/Water Separator CR-1/NHT														2			
EQT 67	3104-95, Oil/Water Separator CR-1/NHT														2			
EQT 68	3105-95, Oil/Water Separator CR-2/HCU API														2			
EQT 69	32-71, CR-2 Heater		1	1	1											2		
EQT 348	5062-09, FR Perc Tank No. 1															1		
EQT 349	5063-09, FR Perc Tank No. 2															1		
EQT 361	5066-09, Fixed Roof Tank (K-515)															1		
FUG 7	3010-95, Fugitive Emissions CR-2														1	1		
FUG 8	3013-95, Fugitive Emissions DHT														1	1		
FUG 9	3015-95, Fugitive Emissions NHT														1	1		

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NORCO REFINERY, CR 2, NHT AND DHT UNITS
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ID No.:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2113	2141	2109	2111	2115	2121	2141	2301	29*	51*	52	56
RLP 6	33-98, CR-2 Regeneration Atm. Vent										2						1	
ARE 13	3216-95, CR-1 Process Wastewater											1					1	
ARE 14	3217-95, CR-2 Process Wastewater										1					1		
ARE 15	3218-95, NHT Process Wastewater										1					1		
ARE 16	3219-95, DHT Process Wastewater										1					1		
TRT 3	CR-2 Regeneration Gas Vent										1					1		
TRT 4	DHT Catalyst Sulfiding Vent										1					1		
TRT 6	DHT Recycle Gas Compressor										1					1		
TRT 7	CR-2 Feed Surge Vent										2							
TRT 9	NHT Feed Surge Vent										2					1		
TRT 10	FGT Knock Out Pot										1					1		
TRT 11	Heat Medium Surge										2					1		
TRT 12	K-2057, Seal Oil Trap															1		
TRT 14	SP 112 OWS Vent										1					1		
TRT 15	Stripper Accumulator											1				1		

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**NORCO REFINERY, CR 2, NHT AND DHT UNITS
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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5 ▲	9	11	13	15	2113	2141	2109	2111	2115	2121	2141	2301	29*	51*	52	56
KEY TO MATRIX																		
1	The regulations have applicable requirements which apply to this particular emission source.																	
1	-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.																	
2	The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.																	
3	The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.																	
	Blank – The regulations clearly do not apply to this type of emission source.																	
	LAC 33:III.Chapter 29 and Chapter 51 are STATE ONLY Requirements																	

* The regulations indicated above are State Only regulations.

- ▲ All LAC 33:III.Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NORCO REFINERY, CR 2, NHT AND DHT UNITS
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	Db	Dc	J	Kb	XX	GGG	QQQ	A	J	M	V	FF	A	Q	CC	UUU	SGS	S2	64	68	82			
UNF001	Catalytic Reformer, Naphtha and Diesel Hydrotreaters	1								1	1	1	1							2						
EQT 57	11-73, CR-2 Heater Stack A/B																									
EQT 58	13-71, Desulfurization Heater (NHT)																									
EQT 61	21-76, DHT Heater																									
EQT 62	30-71A, CR-2 Heater																									
EQT 63	30-71B, CR-2 Heater																									
EQT 64	30-71C, CR-2 Heater																									
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EQT 66	3103-95, Oil/Water Separator CR-1/NHT																									
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EQT 68	3105-95, Oil/Water Separator CR-2/HCU																									
EQT 69	32-71, CR-2 Furnace																									
EQT 348	5062-09, FR Perc Tank No. 1																									
EQT 349	5063-09, FR Perc Tank No. 2																									

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	Db	Dc	J	Kb	XX	GGG	QQQ	A	J	M	V	FF	A	Q	CC	UUU	5Gs	52	64	68	82			
EQT 361	5066-09, Fixed Roof Tank (K-515)						2										1			1						
FUG 7	3010-95, Fugitive Emissions CR-2																			1						
FUG 8	3013-95, Fugitive Emissions DHT																			1						
FUG 9	3015-95, Fugitive Emissions NHT																			1						
RLP 6	33-98, CR-2 Regeneration Atm. Vent																			2	1					
ARE 13	3216-95, CR-1 Process Wastewater																	1			1					
ARE 14	3217-95, CR-2 Process Wastewater																	1			1					
ARE 15	3218-95, NHT Process Wastewater																	1			1					
ARE 16	3219-95, DHT Process Wastewater																	1			1					
TRT 3	CR-2 Regeneration Gas Vent																			2	1					
TRT 4	DHT Catalyst Sulfiding Vent																									
TRT 6	DHT Recycle Gas Compressor																				1					
TRT 7	CR-2 Feed Surge Vent																									

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS								40 CFR 61								40 CFR 63 NESHPAP							
		A	Db	Dc	J	Kb	XX	GGG	QQQ	A	J	M	V	FF	A	Q	CC	UUU	5Gs	52	64	68	82		
TRT 9	NHT Feed Surge Vent																								
TRT 10	FGT Knock Out Pot																								
TRT 11	Heat Medium Surge																								
TRT 12	K-2057, Seal Oil Trap																								
TRT 14	SP 112 OWS Vent									1				1											
TRT 15	Stripper Accumulator																								

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, heaters, and fugitives) but do not apply to this particular emission source.
Blank – The regulations clearly do not apply to this type of emission source.

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**NORCO REFINERY, CR 2, NHT AND DHT UNITS
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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
UNF001 CR1CR2DHTNHT	NESHAP, Subpart GGGGG – NESHAP FOR Source Categories: Site Remediation	Exempt	40 CFR 63.7881(b)-(d)	Meets all the required exemption criteria
EQT 57 (11-73) CR-2 Heater Stack A/B EQT 58 (13-71) Desulfurization Heater (NHT) EQT59 and 60 (14-71 & 15- 71)	LAC 33:III.5109.A. Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33:III.5105.B.3.c	Uses refinery fuel gas having a heating value greater than 7000 BTU/hr
CR-1 Feed Charge Heaters EQT 61 (21-76) DHT Heater EQT 62, 63, 64, 65, and 69 (30-71A-D and 32-71) CR-2 Heaters EQT 66, 67, 68 Oil/Water Separators CR1/NHT, CR2/HCU	LAC 33:III.2109.A Oil/Water - Separation	Exempt	LAC 33:III.2109.B.4	Emits less than 100 tpy of regulated hydrocarbons
EQT 348 and EQT 349 5062-95, 5063-95 FR Perc Tank No. 1 & 2	40 CFR 60, Subpart Kb Standards of Performance for Volatile Organic Liquid Vessels 40 CFR 63, Subpart CC NESHAP from Petroleum Refineries	Does not apply	40 CFR 60.110b	Do not store volatile organic compounds
		Does not apply	40 CFR 63.641 Storage Vessel (12)	Do not meet the definition of a Storage Vessels

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NORCO REFINERY, CR 2, NHT AND DHT UNITS
AGENCY INTEREST NO. 1406
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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT 348 and EQT 349 5062-95, 5063-95 FR Perc Tank No. 1 & 2 (Continued)	LAC 33:III.2103 Control of Emissions of Organic Compounds Storage of Volatile Organic Compounds	Does not apply	LAC 33:III.2103.A	Do not store volatile organic compounds
EQT361 5066-09 Fixed Roof Tank K-515	40 CFR 60, Subpart Kb Standards of Performance for Volatile Organic Liquid Vessels LAC 33:III.2103 Control of Emissions of Organic Compounds Storage of Volatile Organic Compounds	Does not apply	40 CFR 60.110b LAC 33:III.2103.A	Tank not constructed after July 23, 1984 Total vapor pressure of VOC less than 1.5 psia
RLP 6 (33-98) CR-2 Regeneration Atmospheric Vent	40 CFR 63, Subpart CC NESHAP from Petroleum Refineries LAC 33:III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal	Does not apply Exempt	40 CFR 63.641 Miscellaneous Process Vent (7) LAC 33:III.2115.H.1.c	Does not meet the definition of a miscellaneous process vent VOC emissions less than 100 pounds for any 24-hr period
ARE 15 (3218-95) NHT Unit Process Wastewater Emissions	NSPS, Subpart OQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems 40 CFR 63, Subpart CC NESHAP from Petroleum Refineries	Does not Apply	40 CFR 60.690(a)(1) LAC 33:III.2102..A.3	Not constructed, modified, or reconstructed after May 4, 1987
TRT 3 CR-2 Regenerator Gas Vent	40 CFR 63, Subpart CC NESHAP from Petroleum Refineries	Does not apply (7)	40 CFR 63.641 Miscellaneous Process Vent	Does not meet the definition of a miscellaneous process vent
TRT 4 DHT Catalyst Sulfiding Vent	LAC 33:III.1502 Emission Standards for Sulfur Dioxide	Does not apply	LAC 33:III.1502..A.3	Emissions less than the threshold

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LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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AGENCY INTEREST NO. 1406
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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
TRT 7 CR-2 Feed Surge	LAC 33:III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal	Exempt	LAC 33:III.2115.H.1.c or d	VOC emissions less than 100 pounds for any 24 hr period of waste gas stream with a concentration of VOCs less than 0.44 ppm at ambient pressure
TRT 9 NHT Feed Surge				
TRT 11 Heat Medium Surge				
TRT 6 DHT Recycle Gas Compressor	LAC 33:III.2121 Control of Emissions of Organic Compounds – Fugitive Emission Control	Exempt	LAC 33:III.2121.C.4	Exempt from monitoring
FUG007 CR-2 Unit Fugitive Emissions	40 CFR 63, Subpart EEEE NESHAP for Organic Liquid Distribution (Non-Gasoline)	Does not apply	40 CFR 63.2346	Not an affected facility

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

HAROLD LEGGETT, PH.D.
SECRETARY

General Information

AI ID: 1406 Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-Y4
Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	2520-000002	Motiva Enterprises LLC - Norco Refinery	CDS Number	05-27-1993
	76-0489497	Shell Norco Refining Co	Federal Tax ID	07-23-2002
	LAD008186579	Motiva Enterprises LLC - Norco Refinery	Hazardous Waste Notification	08-18-1980
CA			Hazardous Waste Permitting	10-01-1997
	LAD008186579	Inactive	Inactive & Abandoned Sites	11-01-1979
	LA0003522	LPDES #	LPDES Permit #	06-25-2003
	WP0512	LWDPS #	LWDPS Permit #	06-25-2003
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
		Radioactive Material License	Radiation License Number	10-24-2001
		X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
		Site ID #	Solid Waste Facility No.	08-17-2001
	100456	Shell Norco Refining Co	TEMPO Merge	01-27-2005
	17667	Shell Oil Co - Norco Manufacturing Complex Refinery	TEMPO Merge	02-21-2001
	19277	Motiva Enterprises - Norco Refinery	TEMPO Merge	02-21-2001
	33125	Motiva Enterprises LLC - Shell Oil Co/Norco Refinery	TEMPO Merge	04-29-2001
	34615	Motiva Enterprises LLC - Norco Refining Plant	TEMPO Merge	02-21-2001
	37398	Shell Oil Co Norco	TEMPO Merge	07-05-2001
	38782	Motiva Norco Refining Co	TEMPO Merge	05-02-2001
	45019	Shell Oil Co - Norco Manufacturing Complex	TEMPO Merge	02-21-2001
	47233	Shell Oil Co - Motiva LLC Norco Refinery	TEMPO Merge	02-21-2001
	71559	Norco Refinery	TEMPO Merge	02-21-2001
	70079MTVNR15536	TRI #	Toxic Release Inventory	07-13-2004
	45008351	UST Facility ID	UST FID #	09-10-1999
			Main FAX:	5044656360
			Main Phone:	5044657609
Physical Location:		15536 River Rd (portion of) Norco, LA 70079	Phone (Type)	Relationship
Mailing Address:	PO Box 10			
Location of Front Gate:	29.995372 latitude, -90.410167 longitude, Coordinate Method: Lat. Long. - DMS, Coordinate Datum: NAD83	Mailing Address		
Related People:	Name			
	Anne-Marie Ainsworth	15536 River Rd Norco, LA 70079	anne-marie.ainsworth	Responsible Official for
	Anne-Marie Ainsworth	15536 River Rd Norco, LA 70079	5044656014 (WP)	Responsible Official for

General Information

AI ID: 1406 Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

Related People:		Name	Mailing Address	Phone (Type)	Relationship
William Cupp		William Cupp	3433 Hwy 190 PMB 342 Mandeville, LA 70448	9857279832 (WP)	Employed by
William Cupp		William Cupp	3433 Hwy 190 PMB 342 Mandeville, LA 70448	9857279832 (WP)	Underground Storage Tank Contact for
Andrew Englande		Andrew Englande	PO Box 10 Norco, LA 700790010	5044657011 (WP)	Water Billing Party for
Andrew Englande		Andrew Englande	PO Box 10 Norco, LA 700790010	5044657011 (WP)	Water Billing Party for
Fred Goodson		Fred Goodson	PO Box 10 Norco, LA 700790010	5044657609 (WP)	Solid Waste Billing Party for
Fred Goodson		Fred Goodson	PO Box 10 Norco, LA 700790010	5044657609 (WP)	Employed by
Kirk Menard		Kirk Menard	15536 River Rd Norco, LA 70079	50446577609 (WP)	Haz. Waste Billing Party for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	50446577202 (WP)	Employed by
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044656729 (WF)	Hazardous Waste Permit Contact For
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044156470 (CP)	Accident Prevention Billing Party for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	bill.marquis@motiva.	Accident Prevention Billing Party for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657934 (WP)	Accident Prevention Billing Party for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657934 (WP)	Accident Prevention Contact for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	bill.marquis@motiva.	Accident Prevention Contact for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044156470 (CP)	Accident Prevention Contact for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044656729 (WF)	Accident Prevention Contact for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657934 (WP)	Radiation Contact For
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	bill.marquis@motiva.	Radiation Contact For
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044156470 (CP)	Radiation Contact For
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044656729 (WF)	Radiation Contact For
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657934 (WP)	Radiation Safety Officer for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	bill.marquis@motiva.	Radiation Safety Officer for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044656729 (WF)	Radiation Safety Officer for
Quinvoia Robinson-Wells		Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044156470 (CP)	Radiation Safety Officer for
Rene' Thoulien		Rene' Thoulien	PO Box 10 Norco, LA 700790010	RENE.THOULION@	Emission Inventory Contact for
Rene' Thoulien		Rene' Thoulien	PO Box 10 Norco, LA 700790010	5044657764 (WP)	Emission Inventory Contact for
Related Organizations:		Name	Address	Phone (Type)	Relationship
Motiva Enterprises LLC		Attn: Environmental Mgr Norco	LA 700790010	7132416147 (WP)	Owns
Motiva Enterprises LLC		Attn: Environmental Mgr Norco	LA 700790010	7132416147 (WP)	UST Billing Party for
Motiva Enterprises LLC		Attn: Environmental Mgr Norco	LA 700790010	7132416147 (WP)	Emission Inventory Billing Party
Motiva Enterprises LLC		PO Box 10 Norco, LA 700790010		5044657871 (WP)	Air Billing Party for
Shell Norco Refinery - Motiva		Invoice Processing Convent, LA 70723			Radiation Registration Billing Party for
Shell Norco Refinery - Motiva		15536 River Rd Norco, LA 70079			Radiation License Billing Party for

General Information

AI ID: 1406 Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

NAIC Codes:
424690. Other Chemical and Allied Products Merchant Wholesalers

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
CR1CR2DHTNHT Units						
ARE 0013	3216-95 - CR-1 UNIT PROCESS WASTEWATER EMISSIONS					8760 hr/yr
ARE 0014	3217-95 - CR-2 UNIT PROCESS WASTEWATER EMISSIONS					8760 hr/yr
ARE 0015	3218-95 - NHT UNIT PROCESS WASTEWATER EMISSIONS					8760 hr/yr
ARE 0016	3219-95 - DHT UNIT PROCESS WASTEWATER EMISSIONS					8760 hr/yr
EQT 0057	11-73 - CATALYTIC REFORMER #2 (CR-2) HEATER STACK A/B (HEATER F-58)	228 MM BTU/hr	172.1 MM BTU/hr	Ultra Low NOx Burners, two stacks		8760 hr/yr
EQT 0058	13-71 - DESULFURIZATION HEATER, F-21, (NHT)	100.8 MM BTU/hr	84 MM BTU/hr	84 MM BTU/hr		8760 hr/yr
EQT 0061	21-76 - DHT HEATER F-156	70.8 MM BTU/hr	40 MM BTU/hr	40 MM BTU/hr		8760 hr/yr
EQT 0062	30-71A - CR-2 Heater F-53	256 MM BTU/hr		Ultra Low NOx Burners, Common two stacks.		8760 hr/yr
EQT 0063	30-71B - CR-2 Heater F-54	106 MM BTU/hr		Ultra Low NOx Burners, Common two stacks.		8760 hr/yr
EQT 0064	30-71C - CR-2 Heater F-55	96.93 MM BTU/hr		Ultra Low NOx Burners, Common two stacks.		8760 hr/yr
EQT 0065	30-71D - CR-2 Heater F-57	25 MM BTU/hr		Ultra Low NOx Burners, Common two stacks.		8760 hr/yr
EQT 0066	3103-95 - OILWATER SEPARATOR CR1/NHT CORRUGATED PLATE INTERCEPTOR #1					8760 hr/yr
EQT 0067	3104-95 - OILWATER SEPARATOR CR1/NHT CORRUGATED PLATE INTERCEPTOR #2					8760 hr/yr
EQT 0068	3105-95 - OILWATER SEPARATOR CR2/HCU API					8760 hr/yr
EQT 0069	32-71 - CR-2 Heater F-56	57.84 MM BTU/hr	48.2 MM BTU/hr	80000 gallons/yr		8760 hr/yr
EQT 0348	5062-09 - Fixed Roof Perc Tank No. 1	550 gallons		28000 gallons/yr		8760 hr/yr
EQT 0349	5063-09 - Fixed Roof Perc Tank No. 2	550 gallons		28000 gallons/yr		8760 hr/yr
EQT 0361	5066-09 - Fixed Roof Tank K-515	47001.65 gallons		208800 gallons/yr		8760 hr/yr
EQT 0362	5067-09 - CND Catalyst/Desiccant Charging Operations			2,152 MM lbs/yr	Various Vessels and Equipment	(None Specified)
FUG 0007	3010-95 - FUGITIVE EMISSIONS CATALYTIC REFORMER #2 UNIT					8760 hr/yr
FUG 0008	3013-95 - FUGITIVE EMISSIONS - DIESEL HYDROTREATER UNIT					8760 hr/yr
FUG 0009	3015-95 - FUGITIVE EMISSIONS - NHT UNIT					8760 hr/yr
RLP 0006	33-98 - CR-2 REGENERATION ATMOSPHERIC VENT (W/EXTERNAL SCRUBBER)					8760 hr/yr
TRT 0003	CR-2 CATREG - CR-2 Catalyst Regeneration Vent				Emission routed to flare	(None Specified)
TRT 0004	DHT CS - DHT Catalyst Sulphiding				Emission routed to flare	(None Specified)
TRT 0006	DHT COMP - K-5339, DHT Recycle Gas Compressor				Emission routed to flare	(None Specified)
TRT 0007	CR-2 FR - CR-2 Feed Surge				Emission routed to flare	(None Specified)
TRT 0009	NHT FS - NHT Feed Surge				Emission routed to flare	(None Specified)

INVENTORIES

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
CR1CR2DHTNHT Units						
TRT 0010	CR-2 FGT KO POT - CR-2 Fuel Gas Treater Knock Out Pot				Emission routed to flare	(None Specified)
TRT 0011	NHT HIMS - NHT Heat Medium Surge				Emission routed to flare	(None Specified)
TRT 0012	CR-2 COMP - K-2057, CR-2 Compressor Seal Oil Trap				Emission routed to flare	(None Specified)
TRT 0014	DHT OWS - SP-112, DHT Oil Water Separator				Emission routed to flare	(None Specified)
TRT 0015	NHT SA - NHT Stripper Accumulator				Emission routed to flare	(None Specified)
Stack Information:						
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)
CR1CR2DHTNHT Units						
ARE 0013	3216-95 - CR-1 UNIT PROCESS WASTEWATER EMISSIONS					
ARE 0014	3217-95 - CR-2 UNIT PROCESS WASTEWATER EMISSIONS					
ARE 0015	3218-95 - NHT UNIT PROCESS WASTEWATER EMISSIONS					
ARE 0016	3219-95 - DHT UNIT PROCESS WASTEWATER EMISSIONS					
EQT 0057	11-73 - CATALYTIC REFORMER #2 (CR-2) HEATER STACK A/B (HEATER F-58)	29.2	62790	6.75	150	409
EQT 0058	13-71 - DESULFURIZATION HEATER, F-21. (NHT)	42.9	44836	4.71	100	845
EQT 0061	21-76 - DHT HEATER F-156	21.9	30283	5.42	150	410
EQT 0062	30-71A - CR-2 Heater F-53	16.2	61240	8.96	151	715
EQT 0063	30-71B - CR-2 Heater F-54	16.2	61240	8.96	151	715
EQT 0064	30-71C - CR-2 Heater F-55	16.2	61240	8.96	151	715
EQT 0065	30-71D - CR-2 Heater F-57	16.2	61240	8.96	151	715
EQT 0066	3103-95 - OIL/WATER SEPARATOR CR1/NHT CORRUGATED PLATE INTERCEPTOR #1				3	68
EQT 0067	3104-95 OIL/WATER SEPARATOR CR1/NHT CORRUGATED PLATE INTERCEPTOR #2				3	68
EQT 0068	3105-95 - OIL/WATER SEPARATOR CR2/HCU API				3	78
EQT 0069	32-71 - CR-2 Heater F-56	33.7	24876	3.96	153	546
EQT 0346	5062-09 - Fixed Roof Perc Tank No. 1					5.33
EQT 0349	5063-09 - Fixed Roof Perc Tank No. 2					5.33
EQT 0361	5066-09 - Fixed Roof Tank K-515					20
EQT 0362	5067-09 - CND Catalyst/Desiccant Charging Operations					20
FUG 0007	3010-95 - FUGITIVE EMISSIONS CATALYTIC REFORMER #2 UNIT					3
FUG 0008	3013-95 - FUGITIVE EMISSIONS - DIESEL HYDROTREATER UNIT					3
FUG 0009	3015-95 - FUGITIVE EMISSIONS - NHT UNIT					3

INVENTORIES

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
CR1CR2DHNTNH Units							
GRP 0022 30-71 CAP - CR-2 Heater Slacks N/S (Heaters F-53, F-54, F-57)		16.2	61240	8.96		151	715
RLP 0006 33-98 - CR-2 REGENERATION ATMOSPHERIC VENT (w/EXTERNAL SCRUBBER)		162.8	479.5	.25		55	100

Relationships:**Subject Item Groups:**

ID	Group Type	Group Description	Group Description
GRP 0022	Equipment Group	30-71 CAP - CR-2 Heater Slacks N/S (Heaters F-53, F-54, F-55, F-57)	
UNF 0001	Unit or Facility Wide	CND - CR1CR2DHNTNH Units	

Group Membership:

ID	Description	Member of Groups
EQT 0062	30-71A - CR-2 Heater F-53	GRP0000000022
EQT 0063	30-71B - CR-2 Heater F-54	GRP0000000022
EQT 0064	30-71C - CR-2 Heater F-55	GRP0000000022
EQT 0065	30-71D - CR-2 Heater F-57	GRP0000000022

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0720	0720 Petroleum Refining (Rated Capacity)	1	M bbl/day
1670	1670 Storage Tank	1	
1D14	1D14 Level or density gauges		
0720	0720 Petroleum Refining (Rated Capacity)	1	M bbl/day
0720	0720 Petroleum Refining (Rated Capacity)	1	M bbl/day

SIC Codes:

29-11	Petroleum refining	AI 1406
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

CO										NOx										PM10										SO2										VOC									
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year																
CRICR2DHTHNT Units																																																	
ARE 0013 3116-95																																																	
ARE 0014 3117-95																																																	
ARE 0015 3118-95																																																	
ARE 0016 3119-95																																																	
EQT 0057 11-73	14.17	18.78	62.08	6.88	9.12	30.15	1.28	1.70	5.62	4.75	8.53	20.82	0.93	1.23	4.06																																		
EQT 0058 13-71	6.92	8.30	30.30	8.24	9.88	36.07	0.63	0.75	2.74	2.32	3.77	10.15	0.45	0.54	1.98																																		
EQT 0061 21-76	3.29	5.83	14.43	3.92	6.94	17.18	0.30	0.53	1.31	1.10	2.65	4.84	0.22	0.38	0.94																																		
EQT 0062 30-71A		21.08				10.24			1.91			9.58																																					
EQT 0063 30-71B		8.73				4.24			0.79			3.97																																					
EQT 0064 30-71C		7.98				3.88			0.72			3.63																																					
EQT 0065 30-71D		2.06				1.00			0.19			0.94																																					
EQT 0066 3103-95																																																	
EQT 0067 3104-95																																																	
EQT 0068 3105-95																																																	
EQT 0069 32-71	3.97	4.77	17.40	4.72	5.67	20.69	0.36	0.43	1.57	1.33	2.16	5.83	0.26	0.31	1.14																																		
EQT 0361 5086-99																																																	
EQT 0362 5087-99																																																	
FUG 0007 3010-95																																																	
FUG 0008 3013-95																																																	
FUG 0009 3015-95																																																	
GRP 0022 30-71 CAP	29.03		127.15	14.10		61.76	2.63																																										
RLP 0006 33-88																																																	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0009 3015-95	Ethyl benzene	0.02		0.08
	Hydrogen sulfide	0.24		1.07
	Naphthalene	0.56		2.43
	Polynuclear Aromatic Hydrocarbons	0.08		0.37
	Styrene	<0.001		<0.01
	Tetrachloroethylene	<0.001		<0.01
	Toluene	0.07		0.30
	Xylene (mixed isomers)	0.08		0.36
RLP 0006 33-98	n-Hexane	0.06		0.27
	Hydrochloric acid	0.02	0.08	0.10
UNF 0001 CND	1,3-Butadiene			0.03
	2,2,4-Trimethylpentane			0.02
	Ammonia			<0.01
	Benzene			0.54
	Biphenyl			<0.01
	Cobalt compounds			0.04
	Cresol			<0.01
	Cumene			<0.01
	Diethanolamine			1.35
	Ethyl benzene			0.28
	Hydrochloric acid			0.10
	Hydrogen sulfide			2.30
	Naphthalene			2.97
	Nickel (and compounds)			0.06
	Phenol			<0.01
	Polynuclear Aromatic Hydrocarbons			0.37
	Styrene			<0.01
	Tetrachloroethylene			2.07
	Toluene			2.22
	Xylene (mixed isomers)			2.08
	n-Hexane			1.99

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0013 3216-95	Benzene	0.002		0.01
	Ethyl benzene	0.003		0.01
	Naphthalene	<0.001		<0.01
	Toluene	0.05		0.22
	Xylene (mixed isomers)	0.03		0.15
ARE 0014 3217-95	Benzene	0.004		0.02
	Ethyl benzene	0.005		0.02
	Naphthalene	<0.001		<0.01
	Toluene	0.10		0.42
	Xylene (mixed isomers)	0.07		0.29
ARE 0015 3218-95	Benzene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Naphthalene	<0.001		<0.01
	Toluene	0.05		0.21
	Xylene (mixed isomers)	0.03		0.14
ARE 0016 3219-95	Benzene	0.003		0.01
	Ethyl benzene	0.004		0.02
	Naphthalene	<0.001		<0.01
	Toluene	0.08		0.37
	Xylene (mixed isomers)	0.06		0.25
EQT 0348 5062-09	Tetrachloroethylene	0.005		0.02
EQT 0349 5063-09	Tetrachloroethylene	0.005		0.02
EQT 0361 5066-09	1,3-Butadiene	<0.001		<0.001
	Ammonia	0.001		<0.01
	Benzene	<0.001		<0.01
	Cresol	<0.001		<0.01
	Diethanolamine	<0.001		<0.01
	Hydrogen sulfide	<0.001		<0.01
	Naphthalene	<0.001		<0.01
	Phenol	<0.001		<0.01
	Toluene	<0.001		<0.01
	Xylene (mixed isomers)	<0.001		<0.01
EQT 0362 5067-09	Cobalt compounds			0.04

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery****Activity Number: PER20090015****Permit Number: 2502-V4****Air - Title V Regular Permit Renewal**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0362 5067-09	Nickel (and compounds)			0.06
FUG 0007 3010-95	1,3-Butadiene	0.004		0.02
	2,2,4-Trimethylpentane	0.002		0.01
	Benzene	0.03		0.14
	Biphenyl	<0.001		<0.01
	Cresol	<0.001		<0.01
	Cumene	<0.001		<0.01
	Diethanolamine	0.17		0.73
	Ethyl benzene	0.03		0.13
	Hydrogen sulfide	0.04		0.16
	Naphthalene	0.02		0.11
	Polynuclear Aromatic Hydrocarbons	<0.001		<0.001
	Styrene	<0.001		<0.01
	Tetrachloroethylene	0.46		2.03
FUG 0008 3013-95	Toluene	0.11		0.47
	Xylene (mixed isomers)	0.16		0.68
	n-Hexane	0.22		0.96
FUG 0009 3015-95	1,3-Butadiene	0.001		0.01
	Benzene	0.04		0.18
	Diethanolamine	0.14		0.62
	Ethyl benzene	0.003		0.01
	Hydrogen sulfide	0.25		1.07
	Naphthalene	0.10		0.43
	Styrene	<0.001		<0.01
	Toluene	0.05		0.23
	Xylene (mixed isomers)	0.05		0.21
	n-Hexane	0.17		0.76

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AJ ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

ARE_0013 3216-95 - CR-1 UNIT PROCESS WASTEWATER EMISSIONS

- 1 [40 CFR 61.342(e)] Benzene: Permittee shall comply with all the applicable requirements of the alternative requirements of paragraphs 40 CFR 61.342(c) and (d). The permittee shall manage and treat facility waste with a flow weighted annual average water content of less than 10 percent in accordance with 40 CFR 61.342(c)(1). The benzene quantity for the wastes described in 40 CFR 61.342(e)(2) shall be equal to or less than 6.6 tons per year, as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e)] Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF, except as provided in 40 CFR 63.647(b).
- 2 [40 CFR 63.647(a)] Subpart CC. [40 CFR 63.647(e)] Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.357 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)] Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
- 3 [40 CFR 63.654(a)] Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- 4 [LAC 33:III.2121.B.1] Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
- 5 [LAC 33:III.2121.B.2] Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 6 [LAC 33:III.2121.B.3] Which Months: All Year Statistical Basis: None specified Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 7 [LAC 33:III.2121.C.1.a.ii] Which Months: All Year Statistical Basis: None specified Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 8 [LAC 33:III.2121.C.1.a.iii] Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 9 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
- 10 [LAC 33:III.2121.C.1.b.iii] Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 11 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).
- 12 [LAC 33:III.2121.C.1.b.iii] Which Months: All Year Statistical Basis: None specified
- 13 [LAC 33:III.2121.C.1.c] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

ARE 0013 3216-95 - CR-1 UNIT PROCESS WASTEWATER EMISSIONS

- 14 [LAC 33:III.2121.C.3.a] Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 15 [LAC 33:III.2121.C.3.b] Which Months: All Year Statistical Basis: None specified All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.
- 16 [LAC 33:III.2121.C.4.c] Which Months: All Year Statistical Basis: None specified Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- 17 [LAC 33:III.2121.C.4.c] Which Months: All Year Statistical Basis: None specified Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
- 18 [LAC 33:III.2121.E.1] Which Months: All Year Statistical Basis: None specified When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- 19 [LAC 33:III.2121.E] Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- 20 [LAC 33:III.2121.F] Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.
- 21 [LAC 33:III.5109.A] Compliance with 40 CFR 61, Subpart FF - National Emission Standard for Benzene Waste Operations, is considered MACT. [LAC 33:III.5109.A, 40 CFR 61.342(e)]

ARE 0014 3217-95 - CR-2 UNIT PROCESS WASTEWATER EMISSIONS

- 22 [40 CFR 61.342(e)] As an alternative to the requirements specified in paragraph 40 CFR 61.342(c) and (d) the owner or operator of the applicable facility may elect to manage and treat the waste as follows: 1) The owner or operator shall manage and treat facility waste with a flow-weighted annual average water content of less than 10% in accordance with the requirements of 40 CFR 61.342(c)(1). Permittee shall also comply with all the applicable requirements of 40 CFR 61.342(e)(2). [40 CFR 61.342(e)] Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF, except as provided in 40 CFR 63.647(b). Subpart CC. [40 CFR 63.647(a), 40 CFR 61.342(e)] Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.357 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)] Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

ARE 0014 3217-95 - CR-2 UNIT PROCESS WASTEWATER EMISSIONS

- 26 [LAC 33:III.2121.B.2] Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- 27 [LAC 33:III.2121.B.3] Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
- 28 [LAC 33:III.2121.C.1.a.i] Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 29 [LAC 33:III.2121.C.1.a.ii] Which Months: All Year Statistical Basis: None specified Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 30 [LAC 33:III.2121.C.1.a.iii] Which Months: All Year Statistical Basis: None specified Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 31 [LAC 33:III.2121.C.1.b.i] Which Months: All Year Statistical Basis: None specified Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 32 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
- 33 [LAC 33:III.2121.C.1.b.iii] Which Months: All Year Statistical Basis: None specified Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 34 [LAC 33:III.2121.C.1.c] Which Months: All Year Statistical Basis: None specified Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).
- 35 [LAC 33:III.2121.C.3.a] Which Months: All Year Statistical Basis: None specified Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 36 [LAC 33:III.2121.C.3.b] Which Months: All Year Statistical Basis: None specified All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.
- 37 [LAC 33:III.2121.C.4.c] Which Months: All Year Statistical Basis: None specified Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

ARE 0014 3217-95 - CR-2 UNIT PROCESS WASTEWATER EMISSIONS

- 38 [LAC 33:III.2121.C.4.c] Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
 Which Months: All Year Statistical Basis: None specified
 When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- 39 [LAC 33:III.2121.E.1] Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.
- 40 [LAC 33:III.2121.E] Compliance with 40 CFR 61, Subpart FF - National Emission Standard for Benzene Waste Operations, is considered MACT. [LAC 33:III.5109.A, 40 CFR 61.342(e)]
- 41 [LAC 33:III.2121.F] Compliance with 40 CFR 61, Subpart FF - National Emission Standard for Benzene Waste Operations, is considered MACT. [LAC 33:III.5109.A, 40 CFR 61.342(e)]
- 42 [LAC 33:III.5109.A]

ARE 0015 3218-95 - NHT UNIT PROCESS WASTEWATER EMISSIONS

- As an alternative to the requirements specified in paragraph 40 CFR 61.342(c) and (d) the owner or operator of the applicable facility may elect to manage and treat the waste as follows: 1) The owner or operator shall manage and treat facility waste with a flow-weighted annual average water content of less than 10% in accordance with the requirements of 40 CFR 61.342(c)(1). Permittee shall also comply with all the applicable requirements of 40 CFR 61.342(e)(2). [40 CFR 61.342(e)] Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF, except as provided in 40 CFR 63.647(b).
 Subpart CC. [40 CFR 63.647(a), 40 CFR 61.342(e)] Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.35763 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)] Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
 Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
 Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
 Which Months: All Year Statistical Basis: None specified
 Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
 Which Months: All Year Statistical Basis: None specified
- 43 [40 CFR 61.342(e)]
- 44 [40 CFR 63.647(a)]
- 45 [40 CFR 63.654(a)]
- 46 [LAC 33:III.2121.B.1]
- 47 [LAC 33:III.2121.B.2]
- 48 [LAC 33:III.2121.B.3]
- 49 [LAC 33:III.2121.C.1.a.ii]
- 50 [LAC 33:III.2121.C.1.a.ii]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

ARE 0015 3218-95 - NHT UNIT PROCESS WASTEWATER EMISSIONS

- 51 [LAC 33:III.2121.C.1.a.iii] Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 52 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 53 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
- 54 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 55 [LAC 33:III.2121.C.1.c] Which Months: All Year Statistical Basis: None specified Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).
- 56 [LAC 33:III.2121.C.3.a] Which Months: All Year Statistical Basis: None specified Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 57 [LAC 33:III.2121.C.3.b] Which Months: All Year Statistical Basis: None specified All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.
- 58 [LAC 33:III.2121.C.4.c] Which Months: All Year Statistical Basis: None specified Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- 59 [LAC 33:III.2121.C.4.c] Which Months: All Year Statistical Basis: None specified Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
- 60 [LAC 33:III.2121.E.1] When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- 61 [LAC 33:III.2121.E] Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- 62 [LAC 33:III.2121.F] Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.
- 63 [LAC 33:III.5109.A] Compliance with 40 CFR 61, Subpart FF - National Emission Standard for Benzene Waste Operations, is considered MACT. [LAC 33:III.5109.A, 40 CFR 61.342(e)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

ARE 0016 3219-95 - DHT UNIT PROCESS WASTEWATER EMISSIONS

- 64 [40 CFR 60.692-2(a)(1)] Equip each drain with water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(1)]
- 65 [40 CFR 60.692-2(a)(2)] Equipment/operational data monitored by visual inspection/determination once initially and monthly thereafter. Monitor drains in active service for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(2)]
- 66 [40 CFR 60.692-2(a)(3)] Which Months: All Year Statistical Basis: None specified Equipment/operational data monitored by visual inspection/determination once initially and weekly thereafter. Monitor drains out of active service for indications of low water levels or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(a)(3)]
- 67 [40 CFR 60.692-2(a)(4)] Which Months: All Year Statistical Basis: None specified Equipment/operational data monitored by technically sound method once initially and semiannually thereafter. Monitor the tightly sealed cap or plug over a drain that is out of service to ensure cap or plug are in place and properly installed. Subpart QQQ. [40 CFR 60.692-2(a)(4)]
- 68 [40 CFR 60.692-2(a)(5)] Which Months: All Year Statistical Basis: None specified Add water or make first attempts at repair as soon as practicable, but not later than 24 hours after low water levels or missing or improperly installed caps or plugs are detected, except as provided in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(a)(5)]
- 69 [40 CFR 60.692-2(b)(1)] Junction boxes: Equip with a cover. Ensure vent pipes are at least 90 cm (3 ft) in length and do not exceed 10.2 cm (4 in) in diameter. Subpart QQQ. [40 CFR 60.692-2(b)(1)]
- 70 [40 CFR 60.692-2(b)(2)] Junction boxes: Cover must have a tight seal around the edge and be kept in place at all times, except during inspection and maintenance. Subpart QQQ. [40 CFR 60.692-2(b)(2)]
- 71 [40 CFR 60.692-2(b)(3)] Junction boxes: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor to ensure the cover is in place and to ensure that the cover has a tight seal around the edge. Subpart QQQ. [40 CFR 60.692-2(b)(3)]
- 72 [40 CFR 60.692-2(b)(4)] Which Months: All Year Statistical Basis: None specified Junction boxes: Make a first effort at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gap is identified, except as provided in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(b)(4)]
- 73 [40 CFR 60.692-2(c)(1)] Sewer lines: Ensure that sewer lines are not open to the atmosphere and are covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. Subpart QQQ. [40 CFR 60.692-2(c)(1)]
- 74 [40 CFR 60.692-2(c)(2)] Sewer lines: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor the portion of each unburied sewer line for indication of cracks, gaps, or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(c)(2)]
- 75 [40 CFR 60.692-2(c)(3)] Which Months: All Year Statistical Basis: None specified Sewer lines: Make repairs as soon as practicable, but not later than 15 calendar days after cracks, gaps, or other problems are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(c)(3)]
- 76 [40 CFR 60.692-2(e)] Do not route refinery wastewater routed through new drains and a new first common downstream junction box, either as part of a new or existing individual drain system, through a downstream catch basin. Subpart QQQ. [40 CFR 60.692-2(e)]
- 77 [40 CFR 60.696(a)] Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
- 78 [40 CFR 60.697(a)] Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]

SPECIFIC REQUIREMENTS

AID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

ARE 0016 3219-95 - DHT UNIT PROCESS WASTEWATER EMISSIONS

- 79 [40 CFR 60.697(b)] Inspection records recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(b)(1) through (b)(3). Subpart QQQ. [40 CFR 60.697(b)]
- 80 [40 CFR 60.697(e)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]
- 81 [40 CFR 60.697(f)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]
- 82 [40 CFR 60.697(g)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep plans or specifications which indicate the location of out of active service drains covered by tightly sealed caps or plugs for the life of the facility in a readily accessible location. Subpart QQQ. [40 CFR 60.697(g)]
- 83 [40 CFR 60.698(c)] Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
- 84 [40 CFR 61.342(e)] As an alternative to the requirements specified in paragraph 40 CFR 61.342(c) and (d) the owner or operator of the applicable facility may elect to manage and treat the waste as follows: 1) The owner or operator shall manage and treat facility waste with a flow-weighted annual average water content of less than 10% in accordance with the requirements of 40 CFR 61.342(c)(1). Permittee shall also comply with all the applicable requirements of 40 CFR 61.342(e)(2). [40 CFR 61.342(e)]
- 85 [40 CFR 63.647(a)] Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF, except as provided in 40 CFR 63.647(b).
- 86 [40 CFR 63.654(a)] Subpart CC. [40 CFR 63.647(a), 40 CFR 61.342(e)]
- 87 [LAC 33:III.2121.B.1] Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.35763 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)]
- 88 [LAC 33:III.2121.B.2] Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
- 89 [LAC 33:III.2121.B.3] Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- 90 [LAC 33:III.2121.C.1.a.i] Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
- 91 [LAC 33:III.2121.C.1.a.ii] Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 92 [LAC 33:III.2121.C.1.a.iii] Which Months: All Year Statistical Basis: None specified
- Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

ARE 0016 3219-95 - DHT UNIT PROCESS WASTEWATER EMISSIONS

93 [LAC 33:III.2121.C.1.b.i]

Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified

Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified

Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified

Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).

Which Months: All Year Statistical Basis: None specified

Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified

All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified

Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

Which Months: All Year Statistical Basis: None specified

Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.

Which Months: All Year Statistical Basis: None specified

When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.

Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.

Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.

Compliance with 40 CFR 61, Subpart FF - National Emission Standard for Benzene Waste Operations, is considered MACT. [LAC 33:III.5109.A, 40 CFR 61.342(e)]

EQT 0057 11-73 - CATALYTIC REFORMER #2 (CR-2) HEATER STACK A/B (HEATER F-58)

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

EQT 0057 11-73 - CATALYTIC REFORMER #2 (CR-2) HEATER STACK A/B (HEATER F-58)

- 105 [40 CFR 60.104(a)(1)]
 Fuel gas: Hydrogen sulfide ≤ 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: None specified
 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 106 [40 CFR 60.106(a)]
- 107 [40 CFR 60.106]
- 108 [40 CFR 60.13]
- 109 [40 CFR 60.662(a)]
 Continuous emission monitoring system (CEMS) shall be operated as per the manufacturers specifications and shall comply with all the applicable requirements of NSPS, 40 CFR 60, Subpart A and Appendix F.
 Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 110 [40 CFR 60.663(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- 111 [40 CFR 60.663(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- 112 [40 CFR 60.663(d)]
 Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
- 113 [40 CFR 60.663(d)]
 Which Months: All Year Statistical Basis: None specified
 Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663 (d)]
- 114 [40 CFR 60.664(a)]
 Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- 115 [40 CFR 60.664(b)]
 Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- 116 [40 CFR 60.665(b)]
 Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 117 [LAC 33:III.1101.B]
 Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
- 118 [LAC 33:III.1313.C]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

EQT 0057 11-73 - CATALYTIC REFORMER #2 (CR-2) HEATER STACK A/B (HEATER F-58)

119 [LAC 33:III.1513]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

120 [LAC 33:III.507]

Nitrogen oxides <= 0.04 lb/MMBTU. Equipped with Ultra Low NOx Burners [Consent Decree].

Which Months: All Year Statistical Basis: Annual average

121 [LAC 33:III.507]

Nitrogen oxides monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air.

Which Months: All Year Statistical Basis: None specified

EQT 0058 13-71 - DESULFURIZATION HEATER, F-21, (NHT)

122 [40 CFR 60.104(a)(1)]

Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: None specified

Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

Continuous emission monitoring system (CEMS) shall be operated as per the manufacturers specifications and shall comply with all the applicable requirements of NSPS, 40 CFR 60, Subpart A and Appendix F.

Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]

Which Months: All Year Statistical Basis: None specified

Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]

Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]

Which Months: All Year Statistical Basis: None specified

Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]

Which Months: All Year Statistical Basis: None specified

Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]

Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]

Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

EQT 0058 13-71 - DESULFURIZATION HEATER, F-21, (NHT)

Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT 0061 21-76 - DHT HEATER F-156

Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: None specified
 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
 Continuous emission monitoring system (CEMS) shall be operated as per the manufacturers specifications and shall comply with all the applicable requirements of NSPS, 40 CFR 60, Subpart A and Appendix F.
 Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
 Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
 Which Months: All Year Statistical Basis: None specified

133 [40 CFR 60.665(b)]
 134 [LAC 33:III.1101.B]

135 [LAC 33:III.1313.C]
 136 [LAC 33:III.1513]

137 [40 CFR 60.104(a)(1)]
 138 [40 CFR 60.106(a)]

139 [40 CFR 60.106]

140 [40 CFR 60.13]

141 [40 CFR 60.662(e)]
 142 [40 CFR 60.663(c)(1)]

143 [40 CFR 60.663(c)(1)]
 144 [40 CFR 60.663(c)(2)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

EQT 0061 21-76 - DHT HEATER F-156

- 145 [40 CFR 60.663(c)(2)] Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- 146 [40 CFR 60.664(a)] Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.608(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- 147 [40 CFR 60.664(b)] Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 148 [40 CFR 60.665(b)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 149 [LAC 33:III.1101.B] Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. Permittee shall limit the heat input to the DHT Heater, Emission Point 21-76, to no more than 40 MM BTU/hr (annual hourly average) and the corresponding NOx emissions to no more than 17.18 tons per year. The heat input and the NOx emissions shall be recorded each month and for the last twelve consecutive months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. The heat input above the hourly average and the annual NOx emissions in tons per year listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the heat input and the annual NOx emissions shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.

EQT 0062 30-71A - CR-2 Heater F-53

- 153 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: None specified Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 154 [40 CFR 60.106(a)] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 155 [40 CFR 60.106] Continuous emission monitoring system (CEMS) shall be operated as per the manufacturers specifications and shall comply with all the applicable requirements of NSPS, 40 CFR 60, Subpart A and Appendix F.

SPECIFIC REQUIREMENTS

All ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

EQT 0062 30-71A - CR-2 Heater F-53

- 157 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
 Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
 Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
 Which Months: All Year Statistical Basis: None specified
 Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
 Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
 Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
 Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate $<= 0.6$ lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33.III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
 Nitrogen oxides ≤ 0.04 lb/MMBTU. Equipped with Ultra Low NOx Burners [Consent Decree].
 Which Months: All Year Statistical Basis: Annual average
 Nitrogen oxides monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

EQT 0063 30-71B - CR-2 Heater F-54

- 170 [40 CFR 60.104(a)(1)]
Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: None specified
Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
Continuous emission monitoring system (CEMS) shall be operated as per the manufacturers specifications and shall comply with all the applicable requirements of NSPS, 40 CFR 60, Subpart A and Appendix F.
- 171 [40 CFR 60.106(a)]
Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 172 [40 CFR 60.106]
Which Months: All Year Statistical Basis: None specified
Flow monitored by flow indicator hourly. Record the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- 173 [40 CFR 60.13]
Which Months: All Year Statistical Basis: None specified
Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- 174 [40 CFR 60.662(a)]
Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- 175 [40 CFR 60.663(c)(1)]
Which Months: All Year Statistical Basis: None specified
Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)].
- 176 [40 CFR 60.663(c)(1)]
Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 177 [40 CFR 60.663(c)(2)]
Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 178 [40 CFR 60.663(c)(2)]
Which Months: All Year Statistical Basis: None specified
- 179 [40 CFR 60.664(a)]
Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 180 [40 CFR 60.664(b)]
Which Months: All Year Statistical Basis: None specified
- 181 [40 CFR 60.665(b)]
- 182 [LAC 33:III.1101.B]
- 183 [LAC 33:III.1313.C]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

EQT 0063 30-71B - CR-2 Heater F-54

184 [LAC 33:III.1513] Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:II.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
 Nitrogen oxides monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air.

186 [LAC 33:III.507] Which Months: All Year Statistical Basis: None specified
 Nitrogen oxides <= 0.04 lb/MMBTU. Equipped with Ultra Low NOx Burners [Consent Decree].
 Which Months: All Year Statistical Basis: Annual average

EQT 0064 30-71C - CR-2 Heater F-55

187 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: None specified
 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. Continuous emission monitoring system (CEMS) shall be operated as per the manufacturers specifications and shall comply with all the applicable requirements of NPS, 40 CFR 60, Subpart A and Appendix F.
 Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
 Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
 Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
 Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
 Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

EQT 0064 30-71C - CR-2 Heater F-55

198 [40 CFR 60.665(b)] Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III, Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

Nitrogen oxides <= 0.04 lb/MMBTU. Equipped with Ultra Low NOx Burners [Consent Decree].

Which Months: All Year Statistical Basis: Annual average

Nitrogen oxides monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air.

Which Months: All Year Statistical Basis: None specified

EQT 0065 30-71D - CR-2 Heater F-57

204 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: None specified

Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

Continuous emission monitoring system (CEMS) shall be operated as per the manufacturers specifications and shall comply with all the applicable requirements of NSPS, 40 CFR 60, Subpart A and Appendix F.

Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]

Which Months: All Year Statistical Basis: None specified

Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

EQT 0065 30-71D - CR-2 Heater F-57

- Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
- Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- Which Months: All Year Statistical Basis: None specified
- Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- Nitrogen oxides <= 0.04 lb/MMBTU. Equipped with Ultra Low NOx Burners [Consent Decree].
- Which Months: All Year Statistical Basis: Annual average
- Nitrogen oxides monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air.
- Which Months: All Year Statistical Basis: None specified

EQT 0069 32-71 - CR-2 Heater F-56

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

EQT 0069 32-71 - CR-2 Heater F-56

- 221 [40 CFR 60.104(a)(1)]
 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: None specified
- 222 [40 CFR 60.106(a)]
 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 223 [40 CFR 60.106]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 224 [40 CFR 60.13]
 Continuous emission monitoring system (CEMS) shall be operated as per the manufacturers specifications and shall comply with all the applicable requirements of NSPS, 40 CFR 60, Subpart A, and Appendix F.
- 225 [40 CFR 60.662(a)]
 Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 226 [40 CFR 60.663(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- 227 [40 CFR 60.663(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- 228 [40 CFR 60.663(c)(2)]
 Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
- 229 [40 CFR 60.663(c)(2)]
 Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- 230 [40 CFR 60.664(a)]
 Which Months: All Year Statistical Basis: None specified
 Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- 231 [40 CFR 60.664(b)]
 Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- 232 [40 CFR 60.665(b)]
 Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 233 [LAC 33:III.1101.B]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 234 [LAC 33:III.1313.C]
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

EQT 0069 32-71 - CR-2 Heater F-56

235 [LAC 33:III.1513]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT 0348 5062-09 - Fixed Roof Perc Tank No. 1

236 [40 CFR 63.2343(ai)]

Keep documentation that verifies that each storage tank identified in 40 CFR 63.2343(a) is not required to be controlled. Keep documentation up-to-date (i.e., all such emission sources at a facility are identified in the documentation regardless of when the documentation was last compiled) and in a form suitable and readily available for expedited inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. Subpart EEEE. [40 CFR 63.2343(a)]
 Compliance with all the applicable requirements of NESHAP. 40 CFR 63, subpart EEEE has been determined to be compliant in accordance with all the applicable requirements of LAC 33:III.5107.A.

EQT 0349 5063-09 - Fixed Roof Perc Tank No. 2

238 [40 CFR 63.2343(ai)]

Keep documentation that verifies that each storage tank identified in 40 CFR 63.2343(a) is not required to be controlled. Keep documentation up-to-date (i.e., all such emission sources at a facility are identified in the documentation regardless of when the documentation was last compiled) and in a form suitable and readily available for expedited inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. Subpart EEEE. [40 CFR 63.2343(a)]
 Compliance with all the applicable requirements of NESHAP. 40 CFR 63, subpart EEEE has been determined to be compliant in accordance with all the applicable requirements of LAC 33:III.5107.A.

EQT 0361 5066-09 - Fixed Roof Tank K-515

240 [40 CFR 61.342(e)]

Benzene: Permittee shall comply with all the applicable requirements of the alternative requirements of paragraphs 40 CFR 61.342(c) and (d). The permittee shall manage and treat facility waste with a flow weighted annual average water content of less than 10 percent in accordance with 40 CFR 61.342(c)(1). The benzene quantity for the wastes described in 40 CFR 61.342(e)(2) shall be equal to or less than 6.6 tons per year, as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e), 40 CFR 63.647]
 Benzene: Permittee shall comply with all the applicable recordkeeping requirements as stated in 40 CFR 61.356 and all the applicable reporting requirements of 40 CFR 61.357. Subpart FF. [40 CFR 61.356(a)(4), 40 CFR 61.357]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 61, Subpart FF has been determined to be compliant in accordance with all the applicable requirements of LAC 33:III.5109.A.

FUG 0007 3010-95 - FUGITIVE EMISSIONS CATALYTIC REFORMER #2 UNIT

243 [40 CFR 60.592(a)]

Comply with the requirements of 40 CFR 60.482-1 to 482-10 as soon as practicable, but no later than 180 days after initial startup. Subpart GGG. [40 CFR 60.592(a)]
 Comply with the provisions of 40 CFR 60.485 except as provided in 40 CFR 60.593. Subpart GGG. [40 CFR 60.592(d)]

SPECIFIC REQUIREMENTS**AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery****Activity Number: PER20090015****Permit Number: 2502-V4****Air - Title V Regular Permit Renewal****FUG 0007 3010-95 - FUGITIVE EMISSIONS CATALYTIC REFORMER #2 UNIT**

- 245 [40 CFR 60.592(e)] Comply with the provisions of 40 CFR 60.486 and 60.487. Subpart GGG. [40 CFR 60.592(e)]
- 246 [40 CFR 63.640] Compliance with all the applicable requirements of LAC 33:III.Chapter 51 - Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994 is deemed as compliance with NESHAP, Subpart CC -HAPs from Petroleum Refineries.
- 247 [40 CFR 63.648(a)] Comply with the provisions of 40 CFR 60 Subpart VVa and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a), 40 CFR 60.590a]
- Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 248 [40 CFR 63.648(h)] Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]
- 249 [40 CFR 63.654(d)] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 250 [LAC 33:III.2111] Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
- 251 [LAC 33:III.2121.B.1] Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- 252 [LAC 33:III.2121.B.2] Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
- 253 [LAC 33:III.2121.B.3] Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 254 [LAC 33:III.2121.C.1.a.ii] Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 255 [LAC 33:III.2121.C.1.a.iii] Which Months: All Year Statistical Basis: None specified
- 256 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified
- 257 [LAC 33:III.2121.C.1.b.ii] Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 258 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified
- 259 [LAC 33:III.2121.C.1.b.iii] Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
- Which Months: All Year Statistical Basis: None specified
- Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

FUG 0007 3010-95 - FUGITIVE EMISSIONS CATALYTIC REFORMER #2 UNIT

- 260 [LAC 33:III.2.121.C.1.c] Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).
 Which Months: All Year Statistical Basis: None specified
 Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2.121.B.3.
- 261 [LAC 33:III.2.121.C.3.a] Which Months: All Year Statistical Basis: None specified
 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2.121.B.3.
- 262 [LAC 33:III.2.121.C.3.b] Which Months: All Year Statistical Basis: None specified
 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- 263 [LAC 33:III.2.121.C.4.c] Which Months: All Year Statistical Basis: None specified
 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
- 264 [LAC 33:III.2.121.C.4.c] Which Months: All Year Statistical Basis: None specified
 When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- 265 [LAC 33:III.2.121.E.1] Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2.121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2.121.E.2 and make said log available to DEQ upon request.
- 266 [LAC 33:III.2.121.E] Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology Division. Include the information specified in LAC 33:III.2.121.F.1 through 4 for each calendar quarter during the reporting period. Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 267 [LAC 33:III.2.121.F] The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program.
- 268 [LAC 33:III.5109.A] Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible without a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 269 [LAC 33:III.5109.A] Connectors in gas/vapor service and in liquid service >= one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 270 [LAC 33:III.5109.A]
- 271 [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

FUG 0007 3010-95 - FUGITIVE EMISSIONS CATALYTIC REFORMER #2 UNIT

272 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors $>$ 2): VOC, Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that Subsection O.2.c does not apply. If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading \geq 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, except for Subsection Q.5, Q.8 and Q.11, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The leak definition is 500 ppm and the requirements of Subsection Q.12 will coincide with that done for valves and other components associated with connectors.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) and shall comply with all the applicable requirements of LA Refinery MACT Determination dated July 26, 1994 as approved by DEQ. [LAC 33:III.5109.A, 40 CFR 61.342(e)]
 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading \geq 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P, except for Subsection P.3 and P.5 which do not apply. Comply with this requirement instead of the requirements in Subsection O.1.

Which Months: All Year Statistical Basis: None specified
 Comply with the test methods and procedures in Subsections P.1, P.2, and P.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Submit report: Include the information specified in Paragraphs R.2.b.xvi through R.2.b.xxiii, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The reporting schedule will be that which has been established by existing LDAR programs. Subsections R.1, R.3 and R.4 do not apply.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-Y4

Air - Title V Regular Permit Renewal

FUG 0007 3010-95 - FUGITIVE EMISSIONS CATALYTIC REFORMER #2 UNIT

279 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P, except that Subsection P.3 and P.5 do not apply. The weld can also be tested by using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.

280 [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

281 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6, except that Subsection O.2.c does not apply, and the recordkeeping and reporting requirements.

282 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors $<=$ 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P, except that P.3 and P.5 do not apply. If an instrument reading \geq 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

283 [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, except for Subsection O.2.c, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1. Permittee shall comply with all the applicable requirements, as approved by LDEQ, of LAC 33:III Chapter 51 - Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994 for fugitive emissions.

FUG 0008 3013-95 - FUGITIVE EMISSIONS - DIESEL HYDROTREATER UNIT

285 [40 CFR 60.592a(a)]

Comply with the requirements of 40 CFR 60.482-1a to 482-10a as soon as practicable, but no later than 180 days after initial startup. Subpart GGa. [40 CFR 60.592a(a)]

Comply with the provisions of 40 CFR 60.485a except as provided in 40 CFR 60.593a. Subpart GGGa. [40 CFR 60.592a(d)]
 Comply with the provisions of 40 CFR 60.486a and 60.487a. Subpart GGGa. [40 CFR 60.592a(e)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

FUG 0008 3013-95 - FUGITIVE EMISSIONS - DIESEL HYDROTREATER UNIT

- 288 [40 CFR 63.640] Compliance with all the applicable requirements of LAC 33:III:Chapter 51 - Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994 is deemed as compliance with NESHAP, Subpart CC -HAPs from Petroleum Refineries.
- Comply with the provisions of 40 CFR 60 Subpart VVa and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a), 40 CFR 60.590a]
- Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]
- Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- Repair according to LAC 33:III:2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
- Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- Make every reasonable effort to repair a leaking component, as described in LAC 33:III:2121.B, within 15 days, except as provided.
- Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III:2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III:2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III:2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III:2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III:2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III:2121.D (skip period provisions).
- Which Months: All Year Statistical Basis: None specified
- Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III:2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).
- Which Months: All Year Statistical Basis: None specified
- 293 [LAC 33:III:2121.B.1]
- 294 [LAC 33:III:2121.B.2]
- 295 [LAC 33:III:2121.B.3]
- 296 [LAC 33:III:2121.C.1.a.ii]
- 297 [LAC 33:III:2121.C.1.a.iii]
- 298 [LAC 33:III:2121.C.1.b.ii]
- 299 [LAC 33:III:2121.C.1.b.ii]
- 300 [LAC 33:III:2121.C.1.b.iii]
- 301 [LAC 33:III:2121.C.1.b.iii]
- 302 [LAC 33:III:2121.C.1.c]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

FUG_0008 3013-95 - FUGITIVE EMISSIONS - DIESEL HYDROTREATER UNIT

- 303 [LAC 33:III.2121.C.3.a] Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 304 [LAC 33:III.2121.C.3.b] Which Months: All Year Statistical Basis: None specified
 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.
- 305 [LAC 33:III.2121.C.4.c] Which Months: All Year Statistical Basis: None specified
 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- 306 [LAC 33:III.2121.C.4.e] Which Months: All Year Statistical Basis: None specified
 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
- 307 [LAC 33:III.2121.E.1] Which Months: All Year Statistical Basis: None specified
 When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- 308 [LAC 33:III.2121.E] Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- 309 [LAC 33:III.2121.F] Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology Division. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.
- 310 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P, except for Subsection P.3 and P.5 which do not apply. Comply with this requirement instead of the requirements in Subsection O.1.
- 311 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6, except that Subsection O.2.c does not apply, and the recordkeeping and reporting requirements.
- 312 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 313 [LAC 33:III.5109.A] Submit report: Include the information specified in Paragraphs R.2.b.xvi through R.2.b.xxiii, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The reporting schedule will be that which has been established by existing LDAR programs. Subsections R.1, R.3 and R.4 do not apply.

SPECIFIC REQUIREMENTS

AID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

FUG 0008 3013-95 - FUGITIVE EMISSIONS - DIESEL HYDROTREATER UNIT

314 [LAC 33:III.5109.A]

The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program.

315 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in liquid service \geq one inch in inside diameter size (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P, except that Subsection P.3 and P.5 do not apply. The weld can also be tested by using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.

316 [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and in liquid service \geq one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading \geq 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

317 [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and in liquid service \geq one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, except for Subsection O.2.c, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1. Connectors in gas/vapor service and in liquid service \geq one inch in inside diameter size (percent of leaking connectors \leq 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P, except that P.3 and P.5 do not apply. If an instrument reading \geq 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

318 [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, except for Subsection Q.5, Q.8 and Q.11, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The leak definition is 500 ppm and the requirements of Subsection Q.12 will coincide with that done for valves and other components associated with connectors.

319 [LAC 33:III.5109.A]

TPOR0147

Page 26 of 41

SPECIFIC REQUIREMENTS

All ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

FUG 0008 3013-95 - FUGITIVE EMISSIONS - DIESEL HYDROTREATER UNIT

- 320 [LAC 33:III.5109.A] Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) and shall comply with all the applicable requirements of LA Refinery MACT Determination dated July 26, 1994 as approved by DEQ. [LAC 33:III.5109.A, 40 CFR 61.342(e)]
- 322 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors $>$ 2): VOC, Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that Subsection O.2.c does not apply. If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading \geq 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.
- 323 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible without a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 324 [LAC 33:III.5109.A] Comply with the test methods and procedures in Subsections P.1, P.2, and P.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 325 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 326 [LAC 33:III.Chapter 51] Permittee shall comply with all the applicable requirements, as approved by LDEQ, of LAC 33:III.Chapter 51 - Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994 for fugitive emissions.

FUG 0009 3015-95 - FUGITIVE EMISSIONS - NHT UNIT

- 327 [40 CFR 60.592(a)] Comply with the requirements of 40 CFR 60.482-1a to 482-10a as soon as practicable, but no later than 180 days after initial startup. Subpart GGGa. [40 CFR 60.592(a)]
- 328 [40 CFR 60.592a(d)] Comply with the provisions of 40 CFR 60.485a except as provided in 40 CFR 60.592a. Subpart GGGa. [40 CFR 60.592a(d)]
- 329 [40 CFR 60.592a(e)] Comply with the provisions of 40 CFR 60.486a and 60.487a. Subpart GGGa. [40 CFR 60.592a(e)]
- 330 [40 CFR 63.640] Compliance with all the applicable requirements of LAC 33:III.Chapter 51 - Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994 is deemed as compliance with NESHAP, Subpart CC -HAPs from Petroleum Refineries.
- 331 [40 CFR 63.648(a)] Comply with the provisions of 40 CFR 60 Subpart VVa and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a), 40 CFR 60.590a]

SPECIFIC REQUIREMENTS**All ID: 1406 - Motiva Enterprises LLC - Norco Refinery****Activity Number: PER20090015****Permit Number: 2502-V4****Air - Title V Regular Permit Renewal****FUG 0009 3015-95 - FUGITIVE EMISSIONS - NHT UNIT**

332 [40 CFR 63.648(h)]

333 [40 CFR 63.654(d)]

334 [LAC 33:III.2121.B.1]

335 [LAC 33:III.2121.B.2]

336 [LAC 33:III.2121.B.3]

337 [LAC 33:III.2121.C.1.a.i]

338 [LAC 33:III.2121.C.1.a.ii]

339 [LAC 33:III.2121.C.1.a.iii]

340 [LAC 33:III.2121.C.1.b.1]

341 [LAC 33:III.2121.C.1.b.ii]

342 [LAC 33:III.2121.C.1.b.iii]

343 [LAC 33:III.2121.C.1.c]

344 [LAC 33:III.2121.C.3.a]

Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]

Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.

Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.

Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.

Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified
Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified
Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified
Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). In exception to the requirements if a reading of 500 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified
Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).

Which Months: All Year Statistical Basis: None specified
Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified
Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).
Which Months: All Year Statistical Basis: None specified
Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

FUG 0009 3015-95 - FUGITIVE EMISSIONS - NHT UNIT

345 [LAC 33:III.2121.C.3.b]

All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.

Which Months: All Year Statistical Basis: None specified

346 [LAC 33:III.2121.C.4.c]

Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.

Which Months: All Year Statistical Basis: None specified

Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

Which Months: All Year Statistical Basis: None specified

When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.

Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.

Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology

Division. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors ≤ 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P, except that P.3 and P.5 do not apply. If an instrument reading \geq 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

Submit report: Include the information specified in Paragraphs R.2.b.xvi through R.2.b.xxiii, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The reporting schedule will be that which has been established by existing LDAR programs. Subsections R.1, R.3 and R.4 do not apply.

Comply with the test methods and procedures in Subsections P.1, P.2, and P.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P, except that Subsection P.3 and P.5 do not apply. The weld can also be tested by using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.

Which Months: All Year Statistical Basis: None specified

FUG 0009 3015-95 - FUGITIVE EMISSIONS - NHT UNIT

347 [LAC 33:III.2121.C.4.c]

All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

Which Months: All Year Statistical Basis: None specified

348 [LAC 33:III.2121.E.1]

When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.

Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.

Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology

Division. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors ≤ 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P, except that P.3 and P.5 do not apply. If an instrument reading \geq 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

Submit report: Include the information specified in Paragraphs R.2.b.xvi through R.2.b.xxiii, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The reporting schedule will be that which has been established by existing LDAR programs. Subsections R.1, R.3 and R.4 do not apply.

Comply with the test methods and procedures in Subsections P.1, P.2, and P.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P, except that Subsection P.3 and P.5 do not apply. The weld can also be tested by using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.

Which Months: All Year Statistical Basis: None specified

FUG 0009 3015-95 - FUGITIVE EMISSIONS - NHT UNIT

349 [LAC 33:III.2121.E]

All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

Which Months: All Year Statistical Basis: None specified

350 [LAC 33:III.2121.F]

When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.

Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.

Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology

Division. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors ≤ 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P, except that P.3 and P.5 do not apply. If an instrument reading \geq 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

Submit report: Include the information specified in Paragraphs R.2.b.xvi through R.2.b.xxiii, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The reporting schedule will be that which has been established by existing LDAR programs. Subsections R.1, R.3 and R.4 do not apply.

Comply with the test methods and procedures in Subsections P.1, P.2, and P.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P, except that Subsection P.3 and P.5 do not apply. The weld can also be tested by using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.

Which Months: All Year Statistical Basis: None specified

FUG 0009 3015-95 - FUGITIVE EMISSIONS - NHT UNIT

351 [LAC 33:III.5109.A]

All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

Which Months: All Year Statistical Basis: None specified

352 [LAC 33:III.5109.A]

All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

Which Months: All Year Statistical Basis: None specified

353 [LAC 33:III.5109.A]

All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

Which Months: All Year Statistical Basis: None specified

354 [LAC 33:III.5109.A]

All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

FUG 0009 3015-95 - FUGITIVE EMISSIONS - NHT UNIT

356 [LAC 33:III.5109.A]

Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible without a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

357 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading \geq 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

358 [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified
 The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program.

359 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6, except that Subsection O.2.c does not apply, and the recordkeeping and reporting requirements.

360 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

361 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P, except for Subsection P.3 and P.5 which do not apply. Comply with this requirement instead of the requirements in Subsection O.1.

362 [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) and shall comply with all the applicable requirements of LA Refinery MACT Determination dated July 26, 1994 as approved by DEQ. [LAC 33:III.5109.A, 40 CFR 61.342(e)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

FUG 0009 3015-95 - FUGITIVE EMISSIONS - NHT UNIT

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, except for Subsection Q.5, Q.8 and Q.11, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The leak definition is 500 ppm and the requirements of Subsection Q.12 will coincide with that done for valves and other components associated with connectors.

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors $>$ 2): VOC, Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that Subsection O.2.c does not apply. If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading \geq 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified
 Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, except for Subsection O.2.c, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1.
 Permitted shall comply with all the applicable requirements, as approved by LDEQ, of LAC 33:III.Chapter 51 - Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994 for fugitive emissions.

363 [LAC 35:III.5109.A]

364 [LAC 35:III.5109.A]

365 [LAC 33:III.5109.A]

366 [LAC 33:III.5109.A]

367 [LAC 33:III.Chapter 51]

GRP 0022 30-71 CAP - CATALYTIC REFORMER #2 (CR-2) FURNACE STACKS N/S (FURNACES F-53, F-54, F-55, F-57)

Group Members: EQT 0062EQT 0063EQT 0064EQT 0065

SPECIFIC REQUIREMENTS**AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery****Activity Number: PER20090015****Permit Number: 2502-V4****Air - Title V Regular Permit Renewal****GRP 0022 30-71 CAP - CATALYTIC REFORMER #2 (CR-2) FURNACE STACKS N/S (FURNACES F-53, F-54, F-55, F-57)**

368 [LAC 33:III.507.H.1] Permittee shall continuously monitor the heat input to the heaters referenced in this specific condition. Based on the monitored heat input and individual emission factors for each heater the permittee shall calculate emissions for each furnace. The total heat input to all the heaters shall not exceed 352.50 MM BTU/hr (High Heating Value annual average) and the total calculated emissions from all the heaters shall not exceed PM10, 11.50 tons per year (TPY); SO₂, 42.63 TPY; NO_x, 61.76 TPY; CO, 127.15 TPY; and VOC, 8.33 TPY. Emissions from the heaters shall be reported under an emission cap, Emission Point 30-71 CAP. The total heat input and the calculated emissions of the individual heaters shall be recorded each month, as well as the heat input and the total calculated emissions for all the heaters for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total heat input and the calculated emissions from all the heaters above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the heat input of each heater and the overall total heat input and the total emissions from the all the heaters shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year.

Emission Points 30-71A, 30-71B, 30-71C and 30-71D.

RLP 0006 33-98 - CR-2 REGENERATION ATMOSPHERIC VENT (w/EXTERNAL SCRUBBER)

- 369 [40 CFR 63.1567(a)(1)] Inorganic HAP: Hydrochloric acid >= 97 % reduction by weight or <= 10 ppmv (dry basis), corrected to 3% oxygen. Subpart UUU. [40 CFR 63.1567(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- 370 [40 CFR 63.1567(b)(1)] Inorganic HAP: Install, operate, and maintain a continuous monitoring system(s) according to the requirements of 40 CFR 63.1572 and Table 24 (Item 1). Subpart UUU. [40 CFR 63.1567(b)(1)]
- Inorganic HAP: Conduct each performance test according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25 (Item 2). Subpart UUU. [40 CFR 63.1567(b)(2)]
- Inorganic HAP: Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 22 (Item 2) and 23 (Item 1) according to the methods specified in 40 CFR 63 Subpart UUU Tables 27 (Item 2) and 28 (Item 1). Subpart UUU. [40 CFR 63.1567(c)(1)]
- 371 [40 CFR 63.1567(b)(2)] Shall develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions of 40 CFR 63.6(e)(3). Subpart UUU. [40 CFR 63.1567(c)(1)]
- 372 [40 CFR 63.1567(o)(1)] Shall report all excesses and deviations as per the requirements of 40 CFR 63.1570(f) and all the applicable requirements of 40 CFR 63.1575 and CFR 63.1570(d)]
- 373 [40 CFR 63.1570(d)] Table 43. Subpart UUU. [40 CFR 63.1570(f), 40 CFR 63.1575]
- 374 [40 CFR 63.1570(f)] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 375 [LAC 33:III.2115.K] Compliance with all the applicable requirements of 40 CFR 63, Subpart UUU - National Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units is considered compliance with all the applicable requirements of LAC 33:III.5109.A. Determined as MACT.

SPECIFIC REQUIREMENTS

AID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

TRT 0003 CR-2 CATREG - CR-2 Catalyst Regeneration Vent

- 377 [40 CFR 63.1566(a)(1)(i)]
 Organic HAP: Vent emissions to a flare that meets the requirements for control devices in 40 CFR 63.1 (b). Subpart UUU. [40 CFR 63.1566(a)(1)(i)]
- Permittee shall meet each limitation in 40 CFR 63.1566, Table 15 by venting emissions of total organic compounds to the HCU Flare, Emission Point 4-84 which complies with the all the applicable requirements of 40 CFR 63.11(b). These requirements apply during depressurization and purging operations. Shall also comply with the requirements 40 CFR 63.1574(f). [40 CFR 63.1566(a)(1)(i)]
- 378 [40 CFR 63.1566(a)(1)(i)]
 Organic HAP: Conduct each performance test according to the requirements in 40 CFR 63.1571 and under the conditions specified in 40 CFR 63 Subpart UUU Table 18 (Item 1). Subpart UUU. [40 CFR 63.1566(b)(2), 40 CFR 63.1566(b)(3)]
- 379 [40 CFR 63.1566(b)(2)]
 Organic HAP: Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 15 (Item 1) and 16 (Item 1) according to the methods specified in 40 CFR 63 Subpart UUU Tables 20 (Item 1) and 21 (Item 1). Subpart UUU. [40 CFR 63.1566(c)(1)]
- 380 [40 CFR 63.1566(c)(1)]
 Organic HAP: Demonstrate continuous compliance with the work practice standards in 40 CFR 63.1566(a)(3). Subpart UUU. [40 CFR 63.1566(c)(2)]
- 381 [40 CFR 63.1566(c)(2)]
 Organic HAP: Demonstrate continuous compliance with the work practice standards in 40 CFR 63.1566(a)(3). Subpart UUU. [40 CFR 63.1566(c)(2)]
- 382 [LAC 33:III.2115.B]
 Nonhalogenated hydrocarbon burning: Temperature $\geq 1600\text{ F}$ (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.
- Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 383 [LAC 33:III.2115.I]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
 Emissions are routed to the HCU Flare, Emission Point 4-84. Permitted under Logistic I Permit No. 2913-V0 or current permit.
- 384 [LAC 33:III.2115.J.1]
 Compliance with all the applicable requirements of 40 CFR 63, Subpart UUU - National Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units is considered compliance with all the applicable requirements of LAC 33:III.5109.A. Determined as MACT.
- 385 [LAC 33:III.2115.K]
- 386 [LAC 33:III.501.C.6]
 387 [LAC 33:III.5109.A]

TRT 0004 DHT CS - DHT Catalyst Sulftding

- 388 [LAC 33:III.1509.A]
 Organic HAP: Vent emissions to a flare that meets the requirements for control devices in 40 CFR 63.11(b). Subpart UUU.
- Nonhalogenated hydrocarbon burning: Temperature $\geq 1300\text{ F}$ (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.
- 389 [LAC 33:III.2115.A]

SPECIFIC REQUIREMENTS

AID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

TRT 0004 DHT CS - DHT Catalyst Sulidning

391 [LAC 33:III.2115.J.]
 392 [LAC 33:III.2115.K.]

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

Emissions are routed to the OL-5 Ground Flare, Emission Point 7-84. Permitted under Shell Chemical Permit No. 2520-V2 or current permit.

Emiss Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Compliance with all the applicable requirements of 40 CFR 63, Subpart UUU - National Standards for Hazardous Air Pollutants for Petroleum Refineries; Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units is considered compliance with all the applicable requirements of LAC 33:III.5109.A. Determined as MACT.

TRT 0006 DHT COMP - K-5339, DHT Recycle Gas Compressor

396 [40 CFR 63.648(a)]

Comply with the provisions of 40 CFR 60 Subpart VV and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a)]

Comply with 40 CFR 63 Subpart H, except as provided in 40 CFR 63.648(c) through (i). Subpart CC. [40 CFR 63.648(a)]

Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]

Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

Emissions are routed to the OL-5 Ground Flare, Emission Point 7-84. Permitted under Shell Chemical Permit No. 2520-V2 or current permit.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

Shall comply with all the applicable requirements of 40 CFR 60, Subpart GGG. [LAC 33:III.5109.A, 40 CFR 60.590]

TRT 0007 CR-2 FR - CR-2 Feed Surge

403 [LAC 33:III.5109.A]

Emissions are routed to the HCU Flare, Emission Point 4-84. Permitted under Logistic I Permit No. 2913-V0 or current permit.

TRT 0009 NHT FS - NHT Feed Surge

404 [LAC 33:III.5109.A]

Emissions are routed to the Coker Flare, Emission Point 2-84. Permitted under Logistic I Permit No. 2913-V0 or current permit.

TRT 0010 CR-2 FGT KO POT - CR-2 Fuel Gas Treater Knock Out Pot

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

TRT 0010 CR-2 FGT KO POT - CR-2 Fuel Gas Treater Knock Out Pot

405 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature ≥ 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
 Emissions are routed to the HCU Flare, Emission Point 4-84. Permitted under Logistic I Permit No. 2913-V0 or current permit.

TRT 0011 NHT HMS - NHT Heat Medium Suge

410 [LAC 33:III.501.C.6] Emissions are routed to the Coker Flare, Emission Point 2-84. Permitted under Logistic I Permit No. 2913-V0 or current permit.

TRT 0012 CR-2 COMP - K-2057, CR-2 Compressor Seal Oil Trap

411 [LAC 33:III.5109.A] Emissions are routed to the HCU Flare, Emission Point 4-84. Permitted under Logistic I Permit No. 2913-V0 or current permit.

TRT 0014 'DHT OWS - SP-112, DHT Oil Water Separator

412 [40 CFR 60.692-3(a)] Equip and operate each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment with a fixed roof, which meets the specifications in 40 CFR 60.692-3(a)(1) through (a)(5), except as provided in 40 CFR 60.692-3(d) or 60.693-2. Subpart QQQ. [40 CFR 60.692-3(a)]
 413 [40 CFR 60.692-3(b)] Equip and operate each oil-water separator tank or auxiliary equipment with a design capacity to treat more than 16 liters per second (250 gpm) with a closed vent system and control device, which meet the requirements 40 CFR 60.692-5, except as provided in 40 CFR 60.692-3(c) or 60.693-2. Subpart QQQ. [40 CFR 60.692-3(b)]
 414 [40 CFR 60.692-3(e)] Ensure that slop oil from an oil-water separator tank and oily wastewater from slop oil handling equipment is collected, stored, transported, recycled, reused, or disposed of in an enclosed system. Equip equipment used in handling slop oil with a fixed roof meeting the requirements of 40 CFR 60.692-3(a). Subpart QQQ. [40 CFR 60.692-3(e)]
 415 [40 CFR 60.696(a)] Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
 416 [40 CFR 60.697(a)] Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090015
Permit Number: 2502-V4
Air - Title V Regular Permit Renewal

TRT 0014 DHT OWS - SP-112, DHT Oil Water Separator

- Inspection records recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the location, date, and corrective action for inspections required by 40 CFR 60.692-3(a) when a problem is identified that could result in VOC emissions. Subpart QQQ. [40 CFR 60.697(c)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]
- Subpart Notification: Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60.698(b)(1) has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semiannually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]
- Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
- As an alternative to the requirements specified in paragraph 40 CFR 61.342(c) and (d) the owner or operator of the applicable facility may elect to manage and treat the waste as follows: 1) The owner or operator shall manage and treat facility waste with a flow-weighted annual average water content of less than 10% in accordance with the requirements of 40 CFR 61.342(c)(1). Permittee shall also comply with all the applicable requirements of 40 CFR 61.342(e)(2). [40 CFR 61.342(e)]
- Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF, except as provided in 40 CFR 63.647(b).
- Subpart CC. [40 CFR 63.647(a), 40 CFR 61.342(e)]
- Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF, except as provided in 40 CFR 63.647(b).
- Subpart CC. [40 CFR 63.647(a)]
- Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.357 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)]
- Emissions are routed to the OL-5 Ground Flare, Emission Point 7-84. Permitted under Shell Chemical Permit No. 2520-V2 or current permit.
- Compliance with 40 CFR 61, Subpart FF - National Emission Standard for Benzene Waste Operations, is considered MACT. [40 CFR 61.342(e), LAC 33:III.5109.A]

TRT 0015 NHT SA - NHT Stripper Accumulator

- 428 [LAC 33:III.5109.A] Emissions are routed to the Coker Flare, Emission Point 2-84. Permitted under Logistic I Permit No. 2913-V0 or current permit.

UNF 0001 CND - CR1CR2DHTNHT Units

- 429 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090015

Permit Number: 2502-V4

Air - Title V Regular Permit Renewal

UNF 0001 CND - CR1CR2DHTNHT Units

- Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]
Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due within 90 days after January 7, 1993. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]

Submit report: Due by the date of initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 61 Subpart FF has been installed and that the required initial inspections or tests have been carried out in accordance with 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(1)]

Submit report: Due annually, beginning on the date that equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(d)(2)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
Submit Notification of the intention to conduct a performance test. Due at least 30 days before the performance test is scheduled. Subpart CC. [40 CFR 63.642(d)(2)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

UNF 0001 CND - CR1CR2DHTNHT Units

- Conduct performance tests according to the provisions of 40 CFR 63.7(e), except conduct performance tests at maximum representative operating capacity for the process. During the performance test, operate the control device at either maximum or minimum representative operating conditions for monitored control device parameters, whichever results in lower emission reduction. Subpart CC. [40 CFR 63.642(d)(3)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subpart CC for at least 5 years except as otherwise specified in 40 CFR 63 Subpart CC. Maintain all applicable records in such a manner that they can be readily accessed within 24 hours. Subpart CC. [40 CFR 63.642(e)]
- Control emissions of organic HAPs to the level represented by the equation in 40 CFR 63.642(g). Subpart CC. [40 CFR 63.642(g)]
- Control emissions of organic HAPs to the level represented by the equation in 40 CFR 63.642(g). Subpart CC. [40 CFR 63.642(h)]
- Submit Notification of Compliance Status: Due within 150 days after the compliance dates specified in 40 CFR 63.640(h). Include the information specified in 40 CFR 63.654(f)(1) through (f)(5). Subpart CC. [40 CFR 63.654(f)]
- Submit Periodic Report: Due no later than 60 days after the end of each 6-month period when any of the compliance exceptions specified in 40 CFR 63.654(g)(1) through (g)(6) occur. Include the information specified in 40 CFR 63.654(g)(1) through (g)(8). Subpart CC. [40 CFR 63.654(g)]
- Submit reports of startup, shutdown, and malfunction required by 40 CFR 63.10(d)(5). Subpart CC. [40 CFR 63.654(h)(1)]
- Submit the information specified in 40 CFR 63.654(h)(6)(i) through (iii), as applicable. Subpart CC. [40 CFR 63.654(h)(6)]
- Retain a record of all reported performance test results required under 40 CFR 63.654(f) and (g)(7) as well as a complete test report, as described in 40 CFR 63.654(f)(2)(ii) for each emission point tested. Subpart CC. [40 CFR 63.654(i)(2)]
- Retain all information required to be reported under 40 CFR 63.654(a) through (h) for five years. Subpart CC. [40 CFR 63.654(i)(4)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- Outdoor burning of waste material or other combustible material is prohibited.
- Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER200000015

REVIEWS

Permit Number: 2502-V4

LINE 0001 CND - CB1CB2DHTNHT Units

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| 459 | [LAC 33:III.2141] | Permittee shall comply with all the applicable requirements of LAC 33:III.2141 - Refinery Process Unit Turnarounds. Emission of VOC from turnarounds shall be controlled by pumping the liquid contents to storage and depressurizing the processing units to 5 psig or below before venting to the atmosphere. Control of the vapors during the depressurizing prior to venting to atmosphere shall be accomplished by one of the applicable methods specified in LAC 33:III.2115.A, B, and F. Compliance shall be determined and records shall be kept as per LAC 33:III.2113.I, J, and K. |
| 460 | [LAC 33:III.219] | Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. |
| 461 | [LAC 33:III.2901.D] | If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. |
| 462 | [LAC 33:III.2901.F] | Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. |
| 463 | [LAC 33:III.5105.A.1] | Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B. |
| 464 | [LAC 33:III.5105.A.2] | Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. |
| 465 | [LAC 33:III.5105.A.3] | Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. |
| 466 | [LAC 33:III.5105.A.4] | Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. |
| 467 | [LAC 33:III.5107.A.2] | Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. |
| 468 | [LAC 33:III.5107.A.] | Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). |
| 469 | [LAC 33:III.5107.B.1] | Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. |
| 470 | [LAC 33:III.5107.B.2] | |

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

UNF_0001 CND - CR1CR2DHTNHT Units

Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931.

Submit notification in the manner provided in LAC 33:I.3923.

Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.

Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair (LDAR) programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: a) changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; b) the changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; c) actual emissions following the changes will not exceed the emission limits contained in this permit; and d) the components are promptly incorporated into any applicable leak detection and repair program.

Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.

Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.

Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.

An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.

Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.

Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.

471 [LAC 33:III.5107.B.3]

472 [LAC 33:III.5107.B.4]

473 [LAC 33:III.5107.B.5]

474 [LAC 33:III.5109.A]

475 [LAC 33:III.5109.C]

476 [LAC 33:III.5113.A.1]

477 [LAC 33:III.5113.A.2]

478 [LAC 33:III.5151.F.1.f]

479 [LAC 33:III.535]

480 [LAC 33:III.5609.A.1.b]

481 [LAC 33:III.5609.A.2.b]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090015
 Permit Number: 2502-V4
 Air - Title V Regular Permit Renewal

UNF 001 CND - CR1CR2DHTNHT Units

- Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division within 60 days after the information in the submitted registration is no longer accurate.
- Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.
- Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits.
- Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations.
- No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety.
- Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I. Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.
- No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded.